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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/451,127	11/30/1999	PHILIP ANDREW ANSLOW	476-1859	8621	
75	90 04/24/2002				
WILLIAM M LEE JR			EXAMINER		
LEE MANN SMITH MCWILLIAMS SWEENEY & OHLSON			NORRIS, JEREMY C		
P O BOX 2786 CHICAGO, IL	606902786	ART UNIT	PAPER NUMBER		
			2827		
			DATE MAILED: 04/24/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)					
Office Action Summary		09/451,127	ANSLOW ET AL.					
		Examiner	Art Unit					
		Jeremy Norris	2827					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)⊠	Responsive to communication(s) filed on 19 F	ebruary 2002 .						
2a) <u></u> □	This action is FINAL . 2b)⊠ Thi	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠ Claim(s) <u>4-8</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>4-7</u> is/are rejected.							
7)🖂	7) Claim(s) 8 is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>30 November 1999</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
	1.⊠ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)								

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 19 February 2002 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 4-7 are rejected under 35 U.S.C. 102(e) as being anticipated by US 5,979,044 granted to Sumi et al. (hereafter Sumi).

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Sumi discloses, referring to figure 4, a printed circuit board comprising: a plurality of spaced apart circuit layers (28, 47, 48); a drill formed blind hole/via (16, see col. 7, lines 25-30) extending between a surface circuit layer and at least one other circuit layer, said blind hole/via having an electrical connect layer which electrically connects said surface circuit layer to said at least one other circuit layer; and a reflow pad (15) for mounting a component (16) to the surface circuit layer, said reflow pad being generally coincident with a surface part of said electrical connect layer [claim 4], wherein the surface part of the blind hole/via electrical connect layer extends a short distance over the surface of the surface circuit layer and wherein the reflow pad is located upon that part of the electrical connect layer that extends over the surface of the circuit layer (see figure 9) [claim 5], wherein the reflow pad extends over the surface part of the blind hole/via electrical connect layer and also extends over a material (16) filling the blind hole/via [claim 6], wherein the material filling the blind hole/via is a pre-preg material remaining in the hole from the manufacturing process of the board [claim 7] (see col. 9, lines 3-10).

Response to Arguments

Applicant's arguments with respect to claims 4-7 have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter: Claim 8 states the limitation "wherein the material filling the blind hole/via is an electro-conductive [claim 8].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy Norris whose telephone number is 703-306-5737. The examiner can normally be reached on Mon.-Th., 9AM - 6:30 PM and alt. Fri. 9AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7724 for regular communications and 703-305-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

JCSN April 21, 2002

KAMAND CUNEO

PRIMARY EXAMINER

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